

TRAFFIC

AADT
PROJECT LENGTH
FUNCTIONAL CLASS
P.D. ONLY ACCIDENTS
INJURY (non fatal) ACCIDENTS
FATAL ACCIDENTS

STRUCTURE

DRD
ITN
DTN

ACP Visual
ACP/PCC Visual
PCC Visual

GEOMETRY

EXISTING ROADBED WIDTH
PROPOSED ROADBED WIDTH

TERRAIN:

HORIZ. CURVES:

Curve No.	Ball Bank Speed: <u>V_b</u>	Score:
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

VERT. CURVES:

Curve No.	Exist. Sight <u>Distance</u>	Safe <u>Speed</u>	Score:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

**3R PROJECT
SUBMITTAL**



Miles to 100ths
Determines Width Standard

} Last **3** years {

TOTAL SCORE



Road Rater Structural Rating

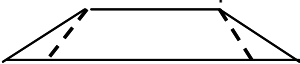
(From CRAB Engineer)

Standard Design Width

Unless the Project is Reconstruction,
standards are listed here only for
reference. Otherwise deviation approval
may be required.

3R projects require a letter to the county's
project file prior to construction.

Minimum Design Speed:

<u>3R SAFETY CHECKLIST:</u>	(See 3R worksheet)	Possible Points	Scored Points	Description:
1 Construct Turn Lanes Attach Warrants		5		L. F. to be constructed
Assign pts if any warranted Lt Turn Lanes will be built.				
2 Flatten sideslopes for fills 6' or higher, $\leq 2:1$		10		Length of Roadway to have slopes flattened - Miles
	Count once			
Length of roadway to have slopes flattened:				
3 Remove Structure and Obstruction (GR, Mailbox ≥ 25 in ² , trees, stumps, sign posts)		10		Miles of Clear Zone to be clear of obstructions. (Count both sides)
Deduct 200 ft for each object that will not be removed Do not include Utility poles.				
4 Treat All culvert ends (bevel and safety bar) Must treat all to get points		5		No. of culverts
5 Upgrade / Install Guardrail / Barrier Attach Warrants (Fill height and lineal feet)		5		L.F. upgraded, installed
6 Relocate All Utilities (4' beyond bottom of ditch)		5		Number of poles
3R CHECKLIST SUBTOTAL		30		

Road Log no.:
County:
Project Name:
Six Year TIP No.

SWR RAP **3R** Rating Worksheet
WAC 136-130-070
Sheet 1 of 8

3R WORKSHEET RECAP:

	Possible Points	Scored Points
<u>TRAFFIC:</u>		
TRAFFIC VOLUME	10	
TRAFFIC ACCIDENTS	10	
TRAFFIC SUBTOTAL	20	
<u>ROAD CONDITION:</u>		
1. STRUCTURAL - Road Rater (Applies to ACP and BST surfaces only)	15	
2. SURFACE		
Asphalt Concrete	15	
Asphalt Concrete over PCC	30	
Portland Cement Concrete	30	
Gravel Surfaced	30	
Record the greater of:		
2 X Structural Points =	=	
or Struct. + Surface Pts =	=	
ROAD CONDITION SUBTOTAL	30	
<u>GEOMETRY:</u>		
Roadway Width	15	
Horiz. and Vert. Alignment	5	
GEOMETRICS SUBTOTAL	20	
ROAD COND. AND GEOM. COMBINATION	50	
<u>3R SAFETY CHECKLIST:</u>		
1 Turn Lanes	5	
2 Sideslopes	10	
3 Remove Structure and Obstruction	10	
4 Culvert End Treatments	5	
5 Upgrade / Install Guardrail / Barrier	5	
6 Utility Relocation (4' beyond bottom of ditch)	5	
3R CHECKLIST SUBTOTAL	30	
<u>TOTAL SWR RAP WORKSHEET RATING</u>	100	

Note: No points are allowed for conditions not to be improved by the project.

3R RATING METHODS

Rate only for those conditions that will be improved to standard.

Provide detailed description of existing condition (and warrants) the county will improve such as length of deficiency, and percent of project length.

<u>Condition:</u>	<u>Possible Points</u>	<u>Max.</u>	
<u>Turn Lanes:</u>			
Full points for any turn lane recommended per Design Manual Fig 910-8&11 (No credit for rt turn pockets or tapers).	5	5	
<u>Sideslopes: 6' or Higher Fills at 2:1 or steeper</u>			
Improve entire project to clear zone or recovery area per Design Manual (Doesn't include location where guardrail is recommended per fig 700-5 due to limited R/W or environmental critical areas	10	10	Points assigned based on % of project length improved.
<u>Remove Structure and Obstruction from Clear Zone:</u>			
Proportion points by % of clear zone & recovery areas on project that will be free of obstructions (exception see Utility Relocation.	10	10	
<u>Culvert End Treatments:</u>			
Only get points if all culvert ends treated	5	5	
<u>Upgrade / Install Guardrail:</u>			
Only get points if upgrade all guardrail elements & install new guardrail where recommended for entire project.	5	5	
<u>Utility Relocation:</u>			
Relocate all nonbreakaway utilities for the entire project length within 5' of R/W limits and at least 4' outside of the bottom of ditch	5	5	
		40	30 max. allowed

ITN =

CALCULATING THE DESIGN TRAFFIC NUMBER DTN